

ABSTRACT

A hydrogen storage material which is an AB_5 type hydrogen storage alloy having a CaCu_5 type crystal structure represented by general formula:



5 wherein Mm is a misch metal, $4.1 < a \leq 4.3$, $0.4 < b \leq 0.6$, $0.2 \leq c \leq 0.4$, $0.1 \leq d \leq 0.4$, and $5.2 \leq a+b+c+d \leq 5.45$,

or general formula:



10 wherein Mm is a misch metal, X is Cu and/or Fe, $4.1 < a \leq 4.3$, $0.4 < b \leq 0.6$, $0.2 \leq c \leq 0.4$, $0.1 \leq d \leq 0.4$, $0 < e \leq 0.1$, and $5.2 \leq a+b+c+d+e \leq 5.45$,

characterized in that the lattice length on the c-axis is 406.2 pm or more, and a process of producing the same.

10015639-42204